

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 17, 2005, 15:19:48 ; Search time 0.001 Seconds

(without alignments)
258.063 Million cell updates/sec

Title: us-10-036-342-57

Sequence: 1 MDPKLGMAASLAVLALLL.....NYIBGTXLFAFLFLEMAQLH 507

Scoring table: BLOSUM62

Gap: 10.0, Gapext 0.5

Searched: 1 segs, 509 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: aay76144.geneseqp2000s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	2612.5	99.6	509	1 AAY76144	Human secreted pro

ALIGNMENTS

RESULT 1
ID AAY76144
AC AAY76144 standard; protein; 509 AA.

DT 23-MAR-2000 (first entry)

DE Human secreted protein encoded by gene 21.

XX Human; secreted protein; cancer; tumour; developmental abnormality;
XX foetal deficiency; blood disorder; immune system disorder; inflammation;
XX autoimmune disease; allergy; Alzheimer's disease; cognitive disorder;
XX schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder;
XX atherosclerosis; diabetes; cardiovascular disorder; kidney disorder;
XX digestive disorder; endocrine disorder; infection; AIDS; leukaemia;
XX therapy; chromosome 18q22-23.

XX Homo sapiens.

XX MO9958660-A1.

XX 18-NOV-1999.

XX 06-MAY-1999; 99WO-US009847.

XX 12-MAY-1998; 98US-0085093P.

PR 12-MAY-1998; 98US-0085094P.
PR 12-MAY-1998; 98US-0085105P.
PR 12-MAY-1998; 98US-0085180P.
PR 18-MAY-1998; 98US-0085306P.
PR 18-MAY-1998; 98US-0085320P.
PR 18-MAY-1998; 98US-0085321P.
PR 18-MAY-1998; 98US-0085322P.
PR 18-MAY-1998; 98US-0085323P.
PR 18-MAY-1998; 98US-0085324P.
PR 18-MAY-1998; 98US-0085325P.
PR 18-MAY-1998; 98US-0085327P.
PR 18-MAY-1998; 98US-0085328P.

(HUMA-) HUMAN GENOME SCI INC.

PI Ruben SM, Florence K, Ni J, Rosen CA, Carter KC, Moore PA;
PI Olsen HS, Shi Y, Young PE, Wei F, Brewer LA, Soppet DR, Lafleur DW;
PI Endress GA, Ebner R;

DR WPI; 2000-062296/05.
DR N-PSDB; AA265270.

PT New isolated human genes and the secreted polypeptides they encode,
PT useful for diagnosis and treatment of e.g. cancers, neurological
PT disorders, immune diseases, inflammation or blood disorders.

PS Claim 11; Page 373-374; 475pp; English.

CC AA265250 to AA265350 represent 97 isolated human secreted protein genes.
CC AAY76124 to AAY76223 are the secreted proteins encoded by the 97 human
CC genes. The gene encoding this protein was found to be on chromosome 18q22
CC -23. The genes and their corresponding secreted polypeptides are useful
CC for preventing, treating or ameliorating medical conditions, e.g. by
CC protein or gene therapy. Also pathological conditions can be diagnosed by
CC determining the amount of the new polypeptides in a sample or by
CC determining the presence of mutations in the new genes. Specific uses are
CC described for each of the 97 genes, based on which tissues they are most
CC highly expressed in, and include developing products for the diagnosis or
CC treatment of cancer, tumours, developmental abnormalities and foetal
CC deficiencies, blood disorders, diseases of the immune system, autoimmune
CC diseases, inflammation, arthritis, asthma, Alzheimer's and cognitive disorders,
CC schizophrenia, diabetes, cardiovascular disorders, kidney disorders,
CC atherosclerosis, endocrine disorders, infections and AIDS. The polypeptides are
CC also useful for identifying their binding partners. The sequences shown
CC in AAY76224 to AAY76424 represent fragments of the secreted proteins

XX SQ Sequence 509 AA;

Query Match 99.6%; Score 2612.5; DB 1; Length 509;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 507; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY	1	MDPKLGMAASLAVLALLLIERGMFSSPPPALTEKVFQYIDLHODEVFQTLKXVAI	59
DB	1	MDPKLGMAASLAVLALLLIERGMFSSPPPALTEKVFQYIDLHODEVFQTLKXVAI	60
QY	60	ESDSVQVPPRRQGLFFMAVAADTQRLGARVASVDMGPOQLPDGSLPIPPVILAEIG	119
DB	61	ESDSVQVPPRRQGLFFMAVAADTQRLGARVASVDMGPOQLPDGSLPIPPVILAEIG	120
QY	120	SDPKRGVCFYGHLDVDPADRGQGLTDPVLTVEVDGKLYGRATDNKGVLAIVNVA	179
DB	121	SDPKRGVCFYGHLDVDPADRGQGLTDPVLTVEVDGKLYGRATDNKGVLAIVNVA	180
QY	180	FRALQDLPVNIKFIIEGMEAGSVALBELVEKEDRFSGVDYIYISDNLWISQKPAI	239
DB	181	FRALQDLPVNIKFIIEGMEAGSVALBELVEKEDRFSGVDYIYISDNLWISQKPAI	240
QY	240	TYGTRGNSYFMVAVKCKDDDFHSGTGGILHEPMADLVALLGSLVDSGHIIIVPGIYDEV	299
DB	241	TYGTRGNSYFMVAVKCKDDDFHSGTGGILHEPMADLVALLGSLVDSGHIIIVPGIYDEV	300

```

QY 300 VPLTEEBINTYKAIHLDLEBYRNSRVEKFLPDTKEIIMHLMRYPSSLIHGIGAFDEP 359
Db 301 VPLTEEBINTYKAIHLDLEBYRNSRVEKFLPDTKEIIMHLMRYPSSLIHGIGAFDEP 360
QY 360 GTCTVTPGRVIGKFSIRLVPHMNVSAVEKQVTRHLEDVPSKRNSNMQVVSMTLGLHPWI 419
Db 361 GTCTVTPGRVIGKFSIRLVPHMNVSAVEKQVTRHLEDVPSKRNSNMQVVSMTLGLHPWI 420
QY 420 ANIDDTQYLAKRAIRTVFGTEPDMIRDSSTIPIAKMFQEIYKSVYLIPLGAVDDGHS 479
Db 421 ANIDDTQYLAKRAIRTVFGTEPDMIRDSSTIPIAKMFQEIYKSVYLIPLGAVDDGHS 480
QY 480 ONEKINRMNYIEGSKLPAAFFLEMAQLH 507
Db 481 ONEKINRMNYIEGSKLPAAFFLEMAQLH 508

```

Search completed: February 17, 2005, 15:19:48
 Job time : 0.001 secs